

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31	(US-20050070097-\$ or US-20040026119-\$ or US-20030227068-\$ or US-20030089943-\$ or US-20040195694-\$ or US-20030013320-\$ or US-20030003230-\$ or US-20020048635-\$ or US-20020197856-\$ or US-20020187631-\$ or US-20020025675-\$ or US-20040265508-\$ or US-20030035256-\$ or US-20050064698-\$ or US-20040192021-\$).did. or (US-6001461-\$ or US-6940117-\$ or US-6955986-\$ or US-6828189-\$ or US-6136682-\$ or US-5709958-\$ or US-6828218-\$ or US-4720401-\$ or US-5824599-\$ or US-6992344-\$ or US-6881669-\$ or US-6866901-\$ or US-6950290-\$ or US-6903908-\$ or US-6570325-\$ or US-6724087-\$).did.	US-PGPUB; USPAT	OR	ON	2009/09/15 22:00
L2	8417378	@ad> "20030928" @rld> "20030928" @ptld> "20030928"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L3	29	(US-20050070097-\$ or US-20040026119-\$ or US-20030227068-\$ or US-20030089943-\$ or US-20040195694-\$ or US-20030013320-\$ or US-20030003230-\$ or US-20020048635-\$ or US-20020197856-\$ or US-20020187631-\$ or US-20020025675-\$ or US-20040265508-\$ or US-20030035256-\$ or US-20050064698-\$).did. or (US-6001461-\$ or US-6940117-\$ or US-6955986-\$ or US-6828189-\$ or US-6136682-\$ or US-5709958-\$ or US-6828218-\$ or US-4720401-\$	US-PGPUB; USPAT	OR	ON	2009/09/15 22:00

		or US-5824599-\$ or US-6992344-\$ or US-6881669-\$ or US-6866901-\$ or US-6950290-\$ or US-6903908-\$ or US-6570325-\$).did.				
L4	35176	(tantalum ta) with (copper cu) not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00
L5	875	diffusion adj barrier with L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00
L6	38	amorphous with L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00
L7	34	(nm nanometers angstrom ang) and L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00
L8	0	(nm nanometers angstrom ang) with L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00
L9	0	(tantalum ta) with (copper cu) with alternating with amorphous not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00
L10	195	(tantalum ta) with (copper cu) with layer with amorphous not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00
L11	2	(atomic adj lamina\$5 atomic \$1lamina\$5 nano\$1lamina\$5 nano adj lamina\$5) with L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; JBM_TDB	OR	ON	2009/09/15 22:00

L12	29	(tantalum ta) with (copper cu) with lamina\$5 with amorphous not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L13	6	(atomic adj lamina\$5 atomic \$1lamina\$5 nano\$1lamina\$5 nano adj lamina\$5) same L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L14	20	(atomic adj lamina\$5 atomic \$1lamina\$5 nano\$1lamina\$5 nano adj lamina\$5) with amorphous not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L15	1	(tantalum ta) with (copper cu) and L14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L16	2	(tantalum ta) and (copper cu) and L14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L17	848	(tantalum ta) with (copper cu) with amorphous not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L18	19	(tantalum ta) with (copper cu) near amorphous not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L19	85	(tantalum ta) with (copper cu) near\$ amorphous not (L18 L2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L20	47	(tantalum ta) with (copper cu) with alternating not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00

L21	2	("6890852").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/15 22:00
L22	1	(US-6001461-\$).did.	USPAT	OR	ON	2009/09/15 22:00
L23	1	(US-6136682-\$).did.	USPAT	OR	ON	2009/09/15 22:00
L24	1	"10674853".rlan. or ("10". src. and "674853".ap.)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/09/15 22:00
L25	8417378	@ad> "20030928" @rlad> "20030928" @pt1d> "20030928"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L26	100526	(tantalum ta) with ((copper cu) (scandium sc) (yttrium y) (lanthanum la)) not L25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 22:00
L27	1	(US-6570325-\$).did.	USPAT	OR	ON	2009/09/15 22:00
L28	25	((("5,629,389") or ("5,747,182") or ("5,844,363") or ("5,872,355") or ("5,902,688") or ("5,948,552") or ("5,260,095") or ("5,395,644") or ("5,547,508") or ("5,691,615") or ("5,902,641") or ("5,440,446") or ("5,725,909") or ("5,440,446") or ("5,725,909"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/15 22:00
L29	1	(US-20040192021-\$).did.	US-PGPUB	OR	ON	2009/09/15 22:00

## EAST Search History (Interference)

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